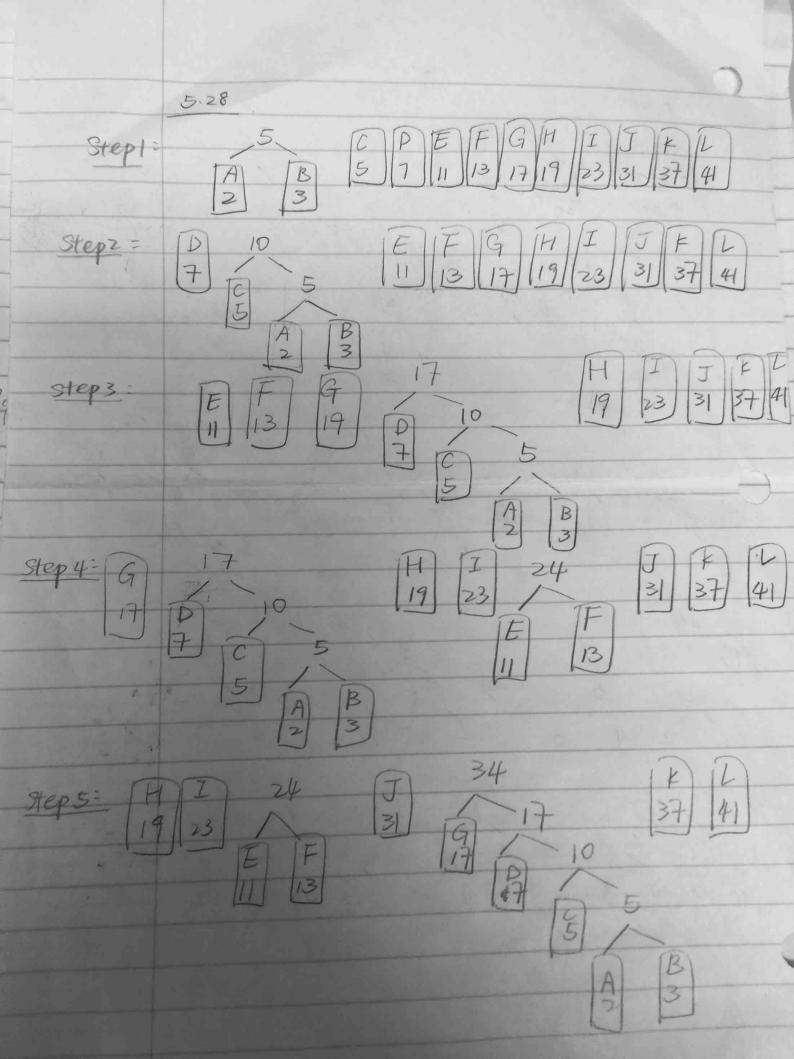
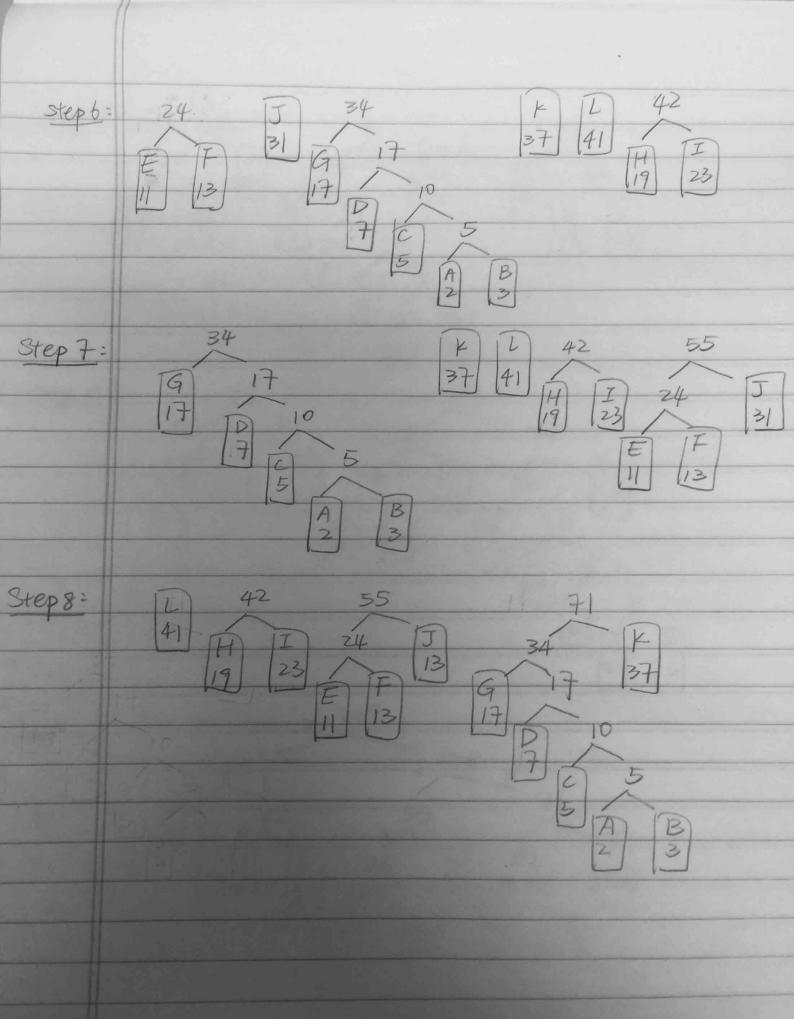
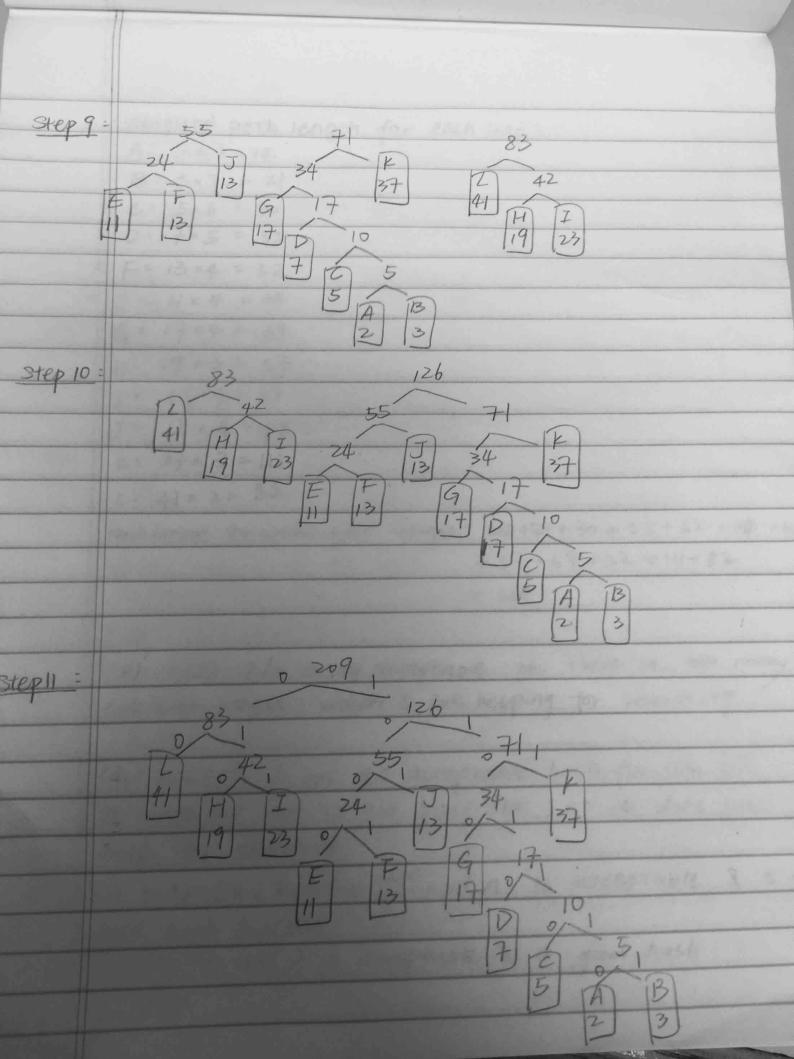
5.23 10 5.26







· weighted path length for each leaf = A= ZX7=14 B: 3x7 = 2 C = 5×6 = 30 D: 7×5 = 35 7 F= 13 x4 = 52 E= 11 × 4 = 44 G= 17x4 = 68 H= 19 ×3 = 57 I= 23×3=69 J= 13 x 4 = 52 K= 37 × 3 = 111. L= 41 x 2= 82. minimum external path weight: 14+21+30+35+52+44+68 +57+69+52+111+82 = 608. 9.13 (a) hlt) = k/n is not acceptable, ble there're too many collision exists, which is not helping for searching. (b) h/k) = 1 is not an acceptable hash function b/c it maps an keys to the same slot, so it does not help for searching. (c). h(t)=(++ Random(n)) mod n. is acceptable & is a good hash function. (d) h(k) = k mod n is acceptable & a good hash function.

	9.1	9.16			
		m=10 15=3,12,9,2,79,44.			
	10	1	1.13		
5	1	2	5	Probability for each empty	
9	12	12	1.2	0:0	
2	3	3	*	5 = 3/3	
7	4	44		7:1/3.	
8	5	76		8 = 0	
. 6	6	79	1		
3	7				
7	8	9			
1	71		79		
rcise	13.1				
			12		
	-7	= 178	> 100	10 50 3/ 7 11 99.	
			100	, So each key is represented as a 7-bit value.	
				binary.	
	12			0/0/0/0 ×	
				0.00/100	
	100			-1100/DO X	
	10			000/0/0 X	
	50			01100/0 X	
	31			0011111 X	
	7			0000111.	
	11			D001011 X	
	99			1/002/1×	
	11				

e

binary time :

